For Research Use Only

POT1 Polyclonal antibody

Catalog Number:10581-1-AP

12 Publications

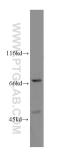


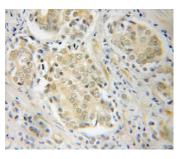
Basic Information	Catalog Number: 10581-1-AP	GenBank Accession Number: BC002923		Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI)	:	Recommended Dilutions: WB 1:500-1:1000	
	600 µg/ml	25913			
	Source:	UNIPROT ID: Q9NUX5		IHC 1:20-1:200	
	Rabbit				
	Isotype: IgG	Full Name: POT1 protection of telomeres 1 homolog (S. pombe) Calculated MW: 71 kDa			
	Immunogen Catalog Number: AG0875				
					Observed MW:
		71 kDa			
		Applications	Tested Applications:		Positive Controls:
IHC, WB, ELISA			WB: HeLa co	WB : HeLa cells, PC-3 cells	
Cited Applications: WB, IP, IHC	IHC : human prostate cancer tissue, hu cancer tissue		n prostate cancer tissue, human cervical		
Species Specificity: human, mouse					
Cited Species: human, mouse					
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
Background Information	Protection of telomeres 1(POT1) is a conserved protein that binds the G-rich stand of its own telomeric repeat sequence, with a role in protecting chromosome ends. It's housekeeping gene that is required to ensure the integrit of chromosome ends in all cells. It's a component of the telomerase ribonucleoprotein(RNP) complex that is esentia for the replication of chromosome termini. It consists the TRF1 compex that is involved in the regulation of telomerase. We have discovered that POT1 exists in at least three consistently occurring forms; 90, 70 and 45kDa. The unexpected molecular weights of POT1 seem to be associated with SUMO1 and ubiquitin conjugation; the latter occurring at a double lysine residue at 289-KK-290 (.PMID: 24054699)				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Umashankar Singh	24054699	DNA Repair (Amst		
	Esra Gozde Kosebent	32464172	Exp Gerontol	IHC	
	Hayley Robinson	35769259	Front Cell Dev Bio	l WB	
	naytey koonson				

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Selected Validation Data





HeLa cells were subjected to SDS PAGE followed by western blot with 10581-1-AP (POT1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human prostate cancer using 10581-1-AP (POT1 antibody) at dilution of 1:100 (under 25x lens).